

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/004618

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ H04B1/38, H04L27/00, H04L7/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H04B1/38-1/55, H04L27/00, H04L7/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 8-149035 A (Sony Corp.), 07 June, 1996 (07.06.96), A Par. Nos. [0010] to [0014]; Figs. 3, 9 (Family: none)	1-4, 7-11, 14-28 5, 6, 12, 13
Y	WO 1998/020407 A1 (Hitachi, Ltd.), 14 May, 1998 (14.05.98), Pages 6 to 7, 16 to 18; Figs. 1, 8, 9 (Family: none)	1-2, 7-9, 14-28
Y	JP 6-284159 A (Toshiba Corp.), 07 October, 1994 (07.10.94), All pages; all drawings & US 5535252 A	1, 9-11, 17, 19, 21, 23, 24, 26

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
06 July, 2004 (06.07.04)Date of mailing of the international search report
27 July, 2004 (27.07.04)Name and mailing address of the ISA/
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2001-103099 A (Fujitsu General Ltd.), 13 April, 2001 (13.04.01), All pages; Fig. 1 (Family: none)	1, 9-11, 17, 19, 21, 23, 24, 26
Y	JP 6-14069 A (Hitachi, Ltd.), 21 January, 1994 (21.01.94), All pages; all drawings (Family: none)	1-4, 16-18, 20-22, 24-25, 27, 28
Y	JP 11-346186 A (Toyo Communication Equipment Co., Ltd.), 14 December, 1999 (14.12.99), All pages; all drawings (Family: none)	2, 16, 18, 20, 22, 25, 27, 28

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